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**Copy of Applicant's Specification**



ORDERING, SCHEDULING AND RESERVATION SYSTEM  
FOR EXPEDITED COMMERCE BETWEEN AN INTERNET BROWSING APPARATUS  
AND ONE OR MORE PHYSICAL VENUES

CROSS REFERENCE TO RELATED APPLICATION

The present non-provisional application relies substantially on disclosure within  
provisional application Serial No. 60/144,210 filed July 19, 1999.

BACKGROUND OF THE INVENTION

Field of the Invention

This invention is related to the field of network-facilitated commerce systems, and in particular to a system and method for expediting commerce with internet browsing apparatus and ordering, reserving and scheduling networked-computer systems to achieve a dual-commerce system and method between a large-scale network and one or more physical venues offering merchandise, services and/or activities. The system communicates via a network such as the international global network (Internet) to coordinate and automate and consolidate online transactions, or interactions, and to schedule and/or sequence reserveable excursions to expedite transactions, or interactions, at any in a variety of venues, including those providing multiple points of interest, or multiple customer transactions, or interactions. The invention further pertains to venues having scalable designated 'Expedited Service Areas' at, or near to, their locations to provide scheduled transaction, or interaction, services to attendees who have--prior to their arrival at the venue-location--employed the system to order, schedule or reserve one or more venue deliverables, such as goods, services, and/or activities. In one embodiment of the invention, the browsing apparatus includes a handheld device having wireless communications capability for further enhancing attendee or customer interaction, convenience and the expediting of their schedulable visits to venues and their points of interest. The system also optimizes attendee or customer flow rates such that venue staffing can be optimally and respectively scheduled according to the degree of scheduled attendee or customer traffic at each venue.

SUMMARY OF THE INVENTION

In recent years developers of mall-based facilities and store chains have been faced with numerous challenges relating to the need to improve the customers' experience when shopping at such facilities. Often such experiences are quite frustrating, for example, due to congestion, parking difficulties, or finding out upon arriving at a venue that items are out of stock or aren't available in desired sizes, or that services or activities thought to be available before one's arrival are in fact not available when one arrives at a given venue. From a business owner perspective, other problems are prevalent. Various venues including, mall-based facilities and facilities incorporating a plurality of stores, or store-chains, have little or no means to optimize a traffic flow of customers and are often left with having to make a best-guess estimate of the number of staff personnel that will be required in a store for a given time of the week, month, or season of the year. Thus, such stores can often become either understaffed resulting in long lines and unproductive delays for their customers, or can be overstaffed which can significantly effect the profits of the business. It therefore, would be preferable to plan and build networked-venues having the means to substantially improve the customers' and merchants' experience, to provide expedited and schedulable customer interactions at a variety of venues such as those located within malls, entertainment complexes, or other facilities offering products, services and/or activities. And to optionally do so in engaging and entertaining ways. Furthermore, it would be preferable to business owners to have some means for optimizing staffing according to a schedulable flow of expedited customer interactions within their respective stores, service centers, or other venues.

The present invention is illustrated in the context of physical venue commerce which is facilitated and expedited by a networked communication with browsing apparatus to achieve a dual-commerce system and method. The browsing apparatus communicates via a networkable connection means such as a networked connection offered by an Internet Service Provider (ISP) and employs a web-browsing software program such as Microsoft® Internet Explorer®, or Netscape Navigator®. The system provides an online software user interface such as a Web Portal (or downloadable web browsing application or interface) which communicates with network-formatted information pertaining to the availability and purchasing details of deliverables offered at one or more networked-venues. Such information is stored in computer-accessible storage means to provide customer-access to current databased data pertaining to

1 product-related transactions, and current databased activity(s) and/or service(s) availability data  
2 for available activity(s) and/or service(s) transactions. The system's browsing apparatus, includes  
3 any in a variety of devices that are made for network browsing, including: computers; handheld  
4 personal information devices; cell phones and/or pagers; and the like. When connected to the  
5 system, the browser apparatus provides selection, ordering, and/or reservation of deliverables  
6 such as products, services and/or activities offered at one or more participating venues networked  
7 to the system. Such networked-venues can include any in a variety of product, activity(s) and/or  
8 service(s) venues such as those found at entertainment complexes, mall-based facilities,  
9 amusement parks, convention centers, stadiums, arenas, a store, or store-chain, service(s) or  
10 activity(s) facility, and the like. The system's browsing apparatus connects with an online  
11 software user interface which communicates with at least one networked-computer at each  
12 participating networked-venue. The venue's networked computer(s) and software which  
13 facilitate the selection, ordering, reserving and transaction confirmation of that venue's available  
14 deliverables. Online ordering of the venue's deliverables are confirmed and recorded during  
15 each customer transaction and the record-keeping data pertaining to selected and reserved  
16 deliverables are updated real-time by the software, e.g. instantly adjusting the system's databased  
17 inventory record in the case of purchased merchandise; or, instantly adjusting service(s)  
18 availability or activity(s) availability during either of such transactions. A scalable designated  
19 area, for example a "Expedited Service Area" is provided at each networked-venue's location for  
20 expediting and culminating interactions customers' have reserved online. The system's software  
21 includes a reservation and scheduling means that query an updateable chronological software  
22 table of scheduled and available customer-events at networked-venues to reserve, schedule and  
23 sequence itineraries for customers whose transactions or interactions are to occur at one or more  
24 locations, or places. The reservation and scheduling means includes the means to create and  
25 adjust itineraries (whenever possible) around a customer's preferred schedule, or when a  
26 preferred schedule is not available, to provide schedules around a choice of one or more 'best-  
27 fit' (i.e. best available) itineraries. After completing and confirming one or more order online  
28 that will be culminated at one or more networked-venue, the customer then selects the best  
29 available itinerary and the system's software provides the customer the choice to either  
30 download the itinerary, for example to be used in a wireless handheld device, or print out an  
31 itinerary record (by downloading it and printing it, or by printing it out from the Internet browser  
32 software). The schedulable itineraries provide highly convenient excursions which eliminate

1 shopping frustrations due to congestion, parking difficulties (parking is schedulable), or finding  
2 out upon arriving at a venue that items are out of stock or aren't available in desired sizes, or that  
3 services or activities thought to be available before one's arrival are in fact not available when  
4 one arrives at a given venue.

5       Additionally, one or more facility having the system's network-enabled venues can also  
6 be equipped with customer interfacing means suitable for establishing a bi-directional  
7 communications link to thereby confirm customer identification (I.D.) so that further transactions  
8 or changes to scheduled sequenced steps can be made at such locations. Such interfacing means  
9 can include any one or more in a variety of known or commercially available input, or  
10 input/output (I/O) devices such as: an ATM-style interface; kiosk interface; or, other interface  
11 with one or more of the following input and/or output devices: a magnetic card-strip reader, or  
12 financial transaction card reader (e.g. for reading financial transaction card information, or credit  
13 card and/or membership card information); electronic-signature pad; a computer-interfaced  
14 keyboard, a computer-interfaced keypad, a PIN entry keypad, or wireless device transmission  
15 interface suitable for Infrared (IR) I/O, or other type of radio wave I/O (e.g. 'Blue Tooth'), and  
16 the like. With the employment of any one or more in a variety of customer interface means, the  
17 identified customer can further edit, add to, amend or reschedule itineraries. Thus a highly  
18 efficient reservation and scheduling system is provided which allows customers to conveniently  
19 move from networked-venue to networked-venue; from one point of interest to another; from  
20 one location to another; or, one place to another. For example, upon arriving at a facility  
21 equipped with the system and method of the present invention, customer itineraries (whether  
22 printed out, or downloaded into mobile handheld devices) can direct identified customers to a  
23 reserved parking spot and then to each scheduled interaction/activity and/or service. The  
24 customer is guaranteed online-reserved and confirmed orders for products, services and/or  
25 activities upon confirming their desired order and best-available itinerary, and is given the option  
26 when possible to also order deliverables online for home delivery. In the latter case, the customer  
27 is provided a means through the software of the system to shop, or order, from online  
28 representations of the deliverables of participating networked-venues, and to consolidate a  
29 plurality of such online orders from different participating venues into a one-time order  
30 procedure. It is the current practice of eCommerce sites on the Internet to require a separate  
31 'checkout' procedure for the shopping or ordering of deliverables in different categories, for  
32 example a book purchase from an eCommerce book seller website requires a separate checkout

1 (ordering) procedure from the purchase of flowers from a separate online florist's website. By  
2 contrast, the present invention facilitates diverse deliverables ordering from separate-but-  
3 participating online-represented venues and consolidates the plurality of orders into expedited  
4 one-time order procedures. For example, a book, a DVD, and a dress, each sold by (and shown  
5 as available) by different online sellers is consolidated into a single online invoice or receipt  
6 indicating the separate price of each deliverable and the cumulative price (and where applicable  
7 the sales tax). The system's software automatically places the order with each seller (and  
8 optionally notifies their supplier of the sale) and deducts those deliverables from the available  
9 inventory. The software tracks the scheduled customer flow-rate at any participating venue and  
10 provides an optimum / known flow of customers from which each participating venue can more  
11 accurately predict and schedule required personnel. Thus, any expedited service area can be  
12 scheduled up to 100% capacity. The Expedited Service Area designated in any given venue is  
13 also optionally scalable to allow more customer transactions and/or interactions as more  
14 customers use the system's dual-commerce services to plan and schedule their network-enabled  
15 excursions. Such scalability provides a means for venues to operate at an optimum and known  
16 (scheduled) customer flow rate without the log-jamming experienced by customers at typical  
17 venues that are operated at full, or near to full, capacity.

18 Customers experience the benefits of guaranteed availability of deliverables whether  
19 purchased online and consolidated into a single-entry ordering procedure (which is then  
20 delivered to their homes or places of work), or when ordered and retrieved in highly convenient,  
21 schedulable excursions from Expedited Service Areas. Merchants experience optimized  
22 customer flow and flow rates to networked-venues and more predictable staffing needs.  
23 Merchants are also sent new and repeat customers and know in advance who, when and how  
24 many customers are being sent. Many of these customers who might otherwise not have come to  
25 a conventional physical venue--and perhaps simply shopped online at a potential low-priced  
26 competitor's website--are attracted by a new customer experience offering unprecedented  
27 efficiency and time-saving convenience. Merchant's suppliers are optionally notified  
28 automatically by the system's software as to the merchants' restocking needs (e.g. by a  
29 networked order to a suppliers computer, by email, by fax, or by automated phone message,  
30 etc.).

31 It is the purpose of the present invention to address the shortcomings in existing and  
32 prevalent web-only commerce sites, and physical venue-only commerce, and to overcome the

1 frustrations associated with, and experienced by, non-scheduled visitations of customers, or  
2 attendees, and to instead provide an efficient networked ordering, reservation and scheduling  
3 system for dual-commerce offering distinctive online, and physical venue customer and  
4 merchant experiences.

5  
6 PRIOR ART  
7

8 Several attempts have been made to provide improved customer interactions in retail  
9 environments and other physical venues, but the attempts have not been implemented in ways  
10 which were well coordinated for the customer(s) or the business owner(s), or in ways that used  
11 the power of an online network to order, reserve and schedule both online and physical venue  
12 transactions and/or interactions. The present invention consolidates ordering procedures and  
13 schedules optimal traffic flow when more than one facility, venue, or location of interest needs to  
14 be visited. By contrast, the previous methods have not implemented scheduling methods in a way  
15 that benefited both the store owner and the customer ~~travelling~~ traveling between multiple  
16 venues. Additionally, they have not provided printable, or downloadable itineraries, or provided  
17 scheduling flexibility to amend, add to, or otherwise edit schedulable itineraries, transactions  
18 and/or interactions; or to download such schedules to convenient handheld devices which have  
19 various means for connectivity to a scheduling system.

20 From a customer perspective it has been possible to call by phone, ahead of time to  
21 arrange that a product, activity or service be reserved for pick up at a certain time. However, the  
22 customer has either done this ordering from memory, or from a static printed reference such as  
23 an ad or catalog, or from a very limited understanding of a facilities' entire offerings. Whereas,  
24 with the dual-commerce system and methods of the present invention it is possible for a  
25 customer to browse entire databased inventory(s) representing all available products, or all  
26 available services and/or activities, and to access such deliverables at one or a plurality of  
27 networked-venues, and to then schedule efficient sequenced visits (including the scheduling of  
28 reserved parking). Thus highly organized and efficient excursions to one or more venue, place of  
29 interest, mall, or complex, and the like, is easily provided, and the inherent strengths of the  
30 Internet (or other network) to track and provide transaction accountability is employed by the  
31 dual-commerce system. Additionally, the coordinated scheduling makes it possible for store  
32 owners to enjoy network-enabled sales that send customer to the merchant's venue and to benefit

1 from the knowledge of when such customers will arrive so that efficient staffing of the venues'  
2 personnel can also be achieved. Search of prior art has shown no systems, methods or apparatus  
3 to achieve such objects and advantages of the present invention, or its dual-commerce, order  
4 consolidating and scheduling/reservation methods including the system's capability to query an  
5 updateable software table of chronological scheduled and schedulable customer-events in order  
6 to schedule 'best-fit, or best available, downloadable itineraries for time-saving excursions to one  
7 or more networked-venues.

## 8 9 BRIEF DESCRIPTION OF THE DRAWINGS

10  
11 Figure 1A is a diagrammatical flow chart showing various browsing devices that can be  
12 linked in bi-directional communication with: a network connection means such as an Internet  
13 Service Provider (ISP); a user interface such as a browser software application e.g. Microsoft®  
14 Internet Explorer® or Netscape Navigator®; an identification means; and, a browsing/interface  
15 means such as Internet Portal, all of which provide access to at least one networked-venue.

16  
17 Figure 1B is a continuation of the flow chart of Fig. 1A, whereby the browsing apparatus  
18 of Fig. 1A has bi-directionally linked communication with at least one interface to one or more  
19 activities, services and/or merchandise venue(s) and venue-condition editing, monitoring and  
20 reporting means, and an ordering, reservation and scheduling means to facilitate online ordering,  
21 home delivery of online deliverables, and to provide scheduled itineraries for the culmination of  
22 customer transactions or interactions at one or more networked-venue(s).

23  
24 Figure 1C is a continuation of the flow chart of Fig. 1B showing the sequence following  
25 the arrival of a customer having a printed itinerary, or alternatively a downloaded schedule in a  
26 handheld device, and his or her "Expedited" interaction with a single facility, or a multi-venue  
27 facility following customer identification and order confirmation.

28  
29 Figures 2 and 3 are front views and top views respectively of an optimized networked-  
30 venue having a plurality of networked workstations which securely encircle an inventory of  
31 merchandise in a workstation system. Figure 3 shows an interior top view of the venue's



1 automated pick-and-place robotics and record-keeping/updateable system, which is accessible by  
2 workstation access, including one or more optional ATM-Style stations at an exterior wall  
3 adjacent near to the workstation system.

## 4 5 DESCRIPTION OF THE PREFERRED EMBODIMENTS 6

7       Figures 1A, 1B and 1C collectively represent a preferred embodiment of the present  
8 invention as a dual-commerce system and method for ordering, scheduling and reservation of  
9 one or more customer transactions or interactions, and should be referred to sequentially and  
10 interchangeably to follow the descriptions below. In Fig. 1A various types of network browsing  
11 apparatus such personal computer 100, handheld personal information device 102, and cellular  
12 phone and/or pager 104 are represent one or more networkable browsing device 106 that can be  
13 used to communicate with the system . The browsing devices have bi-directionally  
14 communication linkage via a wireless communications protocol, or via cable connections, to  
15 network connection means 108 such as an Internet Service Provider (ISP) or other provider of  
16 high-speed bandwidth connection to the Internet. Each of the browsing devices provide  
17 connection with a network such as the having an on-line protocol e.g. a transmission control  
18 protocol/internet protocol (i.e. "TCP/IP") but can alternatively be configured to connect with a  
19 variety of networks including LANs, WANs and the like. Network connection means 108  
20 provides communication via a user interface 110 such as a web-browsing software program e.g.  
21 Microsoft® Internet Explorer®, or Netscape Navigator®. The web-browser provides  
22 communication with websites, Internet portals and the like via an identification verification  
23 means 112 such as any one or more in a variety of known software means for I.D. verification  
24 including user-entered passwords, keywords, user I.D. names, PIN numbers, and the like.  
25 Following I.D. verification, a user is granted access to browsing/interface means 114 such as an  
26 Internet portal or other Internet site which--continuing on to the flow chart in Fig. 1B--provides  
27 communication with one or more networked-venues via online representations of physical  
28 venues (i.e. venues having physical locations to receive and serve customers). Browsing  
29 interface means 114 provides communication with: interface to one or more activities venues or  
30 facilities 116; interface to one or more services venues or facilities 136; or, interface to one or  
31 more merchandise venues or facilities 142. Interfaces 116, 136 and 142 communicate  
32 respectively with activities venue-condition editing, monitoring and reporting means 118,

1 services venue-condition editing, monitoring and reporting means 138, and merchandise venue-  
 2 condition editing, monitoring and reporting means 144. Monitoring and reporting means 118,  
 3 138 and 144 are comprised of one or more databases whose data represent current venue  
 4 conditions. For example, networked-venue conditions at activities venues or facilities include  
 5 data pertaining to availability, ordering, scheduling and reservation of activities at any one or  
 6 more in a variety of activity networked-venues such as one or more: restaurant(s) 120; recreation  
 7 facilities 126 e.g. theme e.g. theme parks, entertainment complexes, malls, arcades, health clubs  
 8 and the like; theatre(s) 132 e.g. film and/or stage; arena(s) 134 events and activities such as  
 9 skating, sporting events and live shows, etc. Venue conditions at services venues or facilities  
 10 include data pertaining to availability, ordering, scheduling and reservation of services at any one  
 11 or more in a variety of service networked-venues 140 offering one or more schedulable services,  
 12 for example: health care such as eye care, skin care, dental, acupuncture, general medical; or hair  
 13 care, nail care, massage; or, travel and accommodation services such as flights, car rentals,  
 14 recreational outings bookings and recreational vehicle rentals, hotel accommodations; or,  
 15 training, tutoring, seminars, classes or other educational sessions, etc. Venue conditions at  
 16 merchandise venues include data pertaining to the availability and ordering of merchandise, and  
 17 the reservation and schedulable pickup of reserved merchandise or goods at any one or more in a  
 18 variety of merchandise venues 146 offering goods for sale or rental: retail stores, store-chains,  
 19 themed retail, department stores, entertainment-content stores, supermarkets, malls, strip malls,  
 20 dealerships, membership clubs, concession stands, and the like.

21 The networked-venue conditions are stored, amended and maintained as databased data  
 22 in the venue-condition editing, monitoring and reporting means (118, 138, 144) and are  
 23 accessible by, and communicate with, at least one venue-type interface to provide stored and  
 24 regularly-updated data pertaining to the availability, ordering, reservation and/or scheduling of  
 25 online and physical venue deliverables. Such data is represented in the interface in a current  
 26 databased selection from which customer choosing and ordering is facilitated--by any one or  
 27 more in a variety of known online order-taking procedures. An ordering, reservation and  
 28 scheduling means 154 records and stores customer-choices using transaction/interaction record-  
 29 keeping & updating software 122. Means 154 also comprises one or more networked-computer  
 30 having software routines for facilitating online ordering, and delivery, and for facilitating online  
 31 orders that are subsequently culminated at one or more networked-venue(s)--following the

1 scheduled arrival of the ordering customer and the verification of their identity at the physical  
2 location of the each of the networked-venue(s) offering the desired transaction(s) or  
3 interaction(s).

4 For example, in one scenario a customer's identity is verified online and he makes  
5 several orders from a plurality of online-represented networked-venues: flowers from one store;  
6 a dress from a second store; an audio CD and DVD from a third store; a meal from a restaurant;  
7 and, theatre tickets to a movie. For the flowers, dress and entertainment media,  
8 merchandise/venue-condition editing, monitoring and reporting means 144 is accessed via  
9 merchandise interface 142 and provides a current databased selection of merchandise that is  
10 easily browsed through--being categorized by type and name of the merchandise networked-  
11 venue, and by type of product(s), product(s) parameters that typically affect buying decisions  
12 (such as prices, taxes, sizes, dimensions, colors, product age/year); product(s) currently  
13 available, and so forth. For the meal and theatre tickets, activities/venue-condition editing,  
14 monitoring and reporting means 118 is accessed via activities interface 116. For one or more  
15 services, services/venue-condition editing, monitoring and reporting means 138 is accessed via  
16 services/browser interface 136. Online deliverables and venue-based deliverables are represented  
17 by any one or more in a variety of known online and/or downloadable media such as: text, line  
18 art, graphical depictions, photos, digital video files, digital audio files, computer-storable files,  
19 faxes, email, instant messaging, and the like.

20 As a plurality of selections are completed, ordering data is sent to at least one ordering,  
21 reservation and scheduling means 154 which includes software routines for querying,  
22 maintaining and editing a chronological table of customer-events: scheduled and schedulable  
23 148. Ordering, reservation and scheduling means 154 keep a running and editable tally of each  
24 customer-order. For a plurality of online orders derived from different online-represented  
25 networked-venues--i.e. orders for deliverables that will be sent for example, to a customers home  
26 or place of business--a running tally of all orders is consolidated by one or more software  
27 routines of means 154 into a single order-entry procedure (versus separate orders for each online-  
28 represented venue) and the consolidated online order is culminated and recorded when confirmed  
29 by the customer. Ordering, reservation and scheduling means 154 retains a record of each venue  
30 providing the deliverable(s) in the consolidated order and automatically calculates and allocates  
31 revenues to the merchants providing the online orders. The system also keeps a running tally and

implements a similar record-keeping procedure for the online ordering of online-represented deliverables that are subsequently obtained from networked-venues. When shopping online for deliverables available at networked-venues, the customer selects an appropriate interface (116, 136, 142) and venue-type from which to make one or more order. Thus, diverse dual-commerce ordering is facilitated: at the online-represented flower shop (networked-venue) the customer orders two dozen roses; at the online-represented dress store a size 8 mango-colored of a specific manufacturer is selected; at online-represented entertainment-content venue the CD and DVD are easily selected--being logically categorized by media headings typically found in entertainment-content stores (including "Hits", "Specials" alphabetized "Artists", music and film genres, and so forth); the online-represented restaurant displays menu items from which a meal is selected and ordered; the theatre displays its current schedule of available tickets to feature films and a movie is selected and ordered.

The dual-commerce system optionally provides software routines that provide previews of streaming entertainment-content such as streaming audio, or streaming video.

After choosing such deliverables from the online-represented networked-venues (in this example products and activities), the ordering, reservation and scheduling means 154 queries chronological table 148 to determine one or more best-fit schedules available for time-saving excursions to the expedited service areas offered in each networked-venue. Optionally, means 154 can also query the customer for preferred time-windows during which he may wish to arrive and remain at one or more networked-venues. In the present example, the customer chooses late Friday or Saturday afternoon with the meal to begin approximately at 6:30 PM and the movie as soon thereafter as possible (Saturday is his specified preference). Means 154 contrasts the customers preferred schedule(s) against the table of currently scheduled and available customer-events and provides a best-fit choice of available itineraries based on the most efficient and most convenient sequencing of the chosen customer-events (e.g. sequencing those events in a schedule requiring the least amount of the customer's time). Using the 6:30 meal time, the ordering, reservation and scheduling means 154 queries table 148 and finds a 6:15 time slot available on Saturday. Means 154 quickly scans the availability at other venues and proposes the following itinerary: the flower and dress shops are nearest one another so they are scheduled for customer expedited service in a time-window between 6:00-6:15; the entertainment-content store and theatre are next to the restaurant so the CD/DVD pick-up time-window is 7:00-7:15 with the film

1 starting at 7:15 PM. So in less than an hour and fifteen minutes, the customer can eat a meal,  
2 'shop' at three stores and begin watching his choice of a movie. If schedules seem too tight for  
3 comfort, the customer can request the system to expand the schedule duration, e.g. the one  
4 fifteen minute schedule can be expanded (as available) to 2 hours.

5 Thus a plurality of online orders can be consolidated by the system into a single online entry-  
6 form (and deliverables are then sent for example, to a customer's home or business), and a  
7 plurality of orders retrievable from networked-venues is consolidated by the system into a single  
8 itinerary which facilitates the culmination of the orders at the venues. The applicant of the  
9 present invention calls these dual-commerce advantages and benefits "Web Assisted Retail  
10 Purchasing™" and uses the acronym WARP™ to explain how customers can now experience  
11 WARP-Accelerated shopping.

12 As mentioned, the customer chooses and confirms his itinerary and selects a printout  
13 record 158 or downloadable itinerary 156 which can be downloaded to a computer for  
14 subsequent printing or downloaded to a portable apparatus such as a commercially available  
15 handheld wireless device. It is noted that although the present example illustrates the sequencing  
16 of customer-events that will be culminated at a plurality of chosen networked-venues, it is also  
17 possible to simply schedule and reserve a customer transaction and/or interaction at a single  
18 networked-venue. For example, in Fig. 1C a printed itinerary or downloaded schedule 160 can  
19 direct the customer to a single facility 162, or in the case of the example given above, to a multi-  
20 venue facility 164. In either case, a customer identification and order confirmation means 166--  
21 such as any one or more in a variety of known identification and order confirmation apparatus  
22 (including wireless bi-directionally linked confirmations, electronic signatures, the combination  
23 of financial transaction cards and card magnetic strip readers, and so forth)--precedes scheduled  
24 parking 168 (optional) and his transaction and/or interaction at a designated expedited service  
25 area 170. Such designated areas are within, adjacent to, or near to, the networked-venues. The  
26 designated expedited areas are so marked and are easily discernable to the customer, and are  
27 staffed by personnel according to the flow of 'expedited' customer interactions that have been  
28 scheduled before the customer's arrival.

29 Each culminated order is automatically reported back--via one or more order-reporting  
30 software routines--to the relevant venue-condition editing, monitoring and reporting means  
31 (118, 138, 144) via reporting step 176. Additional transactions and/or interactions 172 (by the

1 same customer) at other networked-venues are handled by one or more software routines which  
2 tracks, records and tallies subsequent use of customer identification and order confirmation  
3 means 166 and/or subsequent transaction and/or interaction at respective designated expedited  
4 service area 170 of such networked-venues. When the customer is done 174, the cumulative  
5 transactions and/or interactions are reported to one or more venue-condition editing, monitoring  
6 and reporting means (118, 138, 144) via reporting step 176. The report is also routed to ordering,  
7 reservation and scheduling means 154 to adjust the availability of schedules in chronological  
8 table 148 and transaction/interaction record 122 which additionally calculates, records and  
9 reports revenues and/or commissions for each transaction/interaction and does so according to  
10 the types of purchases made. Customer orders, reservations and schedules (and relevant data  
11 pertaining thereto) are also communicated to merchants via merchant access 124 as orders are  
12 made and confirmed. Optionally merchants can choose to have one or more suppliers  
13 automatically notified of each sale, or when merchant-configurable restocking thresholds are  
14 reached.

15 In one embodiment of the invention, the system can optionally accommodate real-time  
16 requests for itinerary breaks when the customer is using, or about to use, an itinerary. For  
17 example, customers may wish to rest or take an unscheduled detour. In such cases, ordering,  
18 reservation and scheduling means 154 queries and adjusts schedules as available in chronological  
19 table 148 and reports schedule options to the customer for his or her choosing via a customer's  
20 portable communications device such as wireless personal digital assistant ('PDA'), or via a  
21 venue-based itinerary-displaying and/or printing system (e.g. one or more networked computer  
22 and coupled printer, not shown). In larger venues such as amusement parks, or theme parks,  
23 means 154 simply swaps break requests between a plurality of customers and re-schedules  
24 customer-events as available. For example, in the following scenario, it's 11:20 AM, 'customer  
25 A' has two events scheduled between 11:30 AM and noon but has just made a half hour break  
26 request at a networked-venue computer, and 'customer B'--who has a half hour break scheduled  
27 between 11:30 AM and noon and the same two events as 'customer A' scheduled a half hour  
28 later (noon to 12:30 PM)--now wishes to prioritize the scheduled events *before* his break and he  
29 uses the Internet connectivity of his wireless device to make his request. The system easily  
30 accommodates both customers wishes by buffering all pending requests while querying changes  
31 and current conditions in chronological table 148. One or more software routines compare the

1 scheduled data and requested changes and--in the example of 'customer A' and 'customer B'  
2 instantly swaps those customers requested breaks with their previously scheduled events.

3 Thus a highly efficient, flexible dual-commerce system offering both conventional online  
4 ordering and delivery 152 and the improved convenience of schedulable itineraries to one or  
5 more networked-venue(s) is provided. The merchants of the networked-venues receive  
6 customers that the system sends them--customers who might otherwise have simply shopped  
7 online if not for the new customer experiences being offered, including added-value time-saving  
8 convenience and same-day availability of deliverables at networked-venues. No waiting in long  
9 lines or wondering if desired goods, activities or services, will be available (including in the right  
10 size, model, shape, color, etc.). The system ensures availability of, and reserves, the customers'  
11 transactions and/or interactions at all participating networked-venues. The customer passes  
12 quickly from expedited service area to expedited service area using a minimum of time, and  
13 schedule changes are easily accommodated. The system also creates a seamless economy  
14 whereby customers and merchants receive current online and venue-condition status,  
15 commissions are automatically calculated for all orders and, optionally suppliers are  
16 automatically informed as to the restocking needs of networked-venues. Furthermore, the  
17 customer can pre-pay all orders online, meaning that little or no cash need be carried by the  
18 customer to networked-venues, which is an added security benefit.

19 In another embodiment of the present invention, the designated area for expedited service  
20 includes the incorporation of any one or more in a variety of known receivers or transceivers of  
21 wireless transmissions suitable for communications with the type of wireless devices mentioned  
22 above. Expedited service areas can also include magnetic card strip readers for customer  
23 identification and order confirmation purposes. In either case, the facility's wireless devices or  
24 transceivers, or card readers, are employable as an efficient and quick verification means of the  
25 expedited-customer's identification, order information, price confirmation, and other expedited  
26 service advantages. Additionally, handheld devices having screens that are easily readable, can  
27 optionally be equipped with machine readable code that is suitable for downloading and  
28 displaying scheduled itinerary information which is received from the Internet, or from wireless  
29 transceivers (or received when temporarily coupled to a computer). For example, the customer's  
30 sequenced itinerary can be displayed as a running or real-time updateable schedule on the screen  
31 display of his or her device and can include automated, or user-configurable prompts that occur

1 minutes ahead of any given event. For instance, "Dinner in ten minutes", "CD pickup available  
2 in 20 minutes", "The film starts in 45 minutes", and so on.

3 Bi-directional interactions of wireless devices facilitate quick 'checking in' at a each  
4 venue and can include software to automatically update display-screen data and check-off and/or  
5 hide listed events when orders or events are completed, and/or provide useful information as to  
6 the next stop on one's itinerary. For example, the screen may read "Your next stop is on level  
7 two on the opposite side of the mall, you're currently here on level one", "Your car is parked in  
8 section B3, to exit, go to the opposite end of the mall and proceed down the escalator one level".  
9 Handheld devices equipped with a graphical user interface ('GUI') and schedule-displaying  
10 software can graphically or pictorially represent such instructions in virtually any type of facility  
11 including: a mall, entertainment complex, amusement park, convention hall, stadium, arena, and  
12 the like, using photographs, diagrams, maps, or other graphical depictions and can direct its user  
13 with graphical elements such as arrows to indicate which way he or she should proceed relative  
14 to their current position, and relative to their desired destinations in their expedited excursion  
15 (itinerary).

16 In the event that the handheld device also includes, or optionally provides, direction-  
17 finding hardware and software, for example 3-Com's PalmPilot® can be equipped with a Global  
18 Positioning System (attachable accessory), the device can be equipped with software for  
19 displaying destinations relative to the current location of the customer and show the customer--  
20 for example with a directional arrow relative to a graphically depicted map--which way to go  
21 relative to their current position and one or more destination in their scheduled itinerary.

22 Some handheld devices also include audio capability, in which case directions by audio-  
23 equipped devices can be given audibly, as can current schedule information, which would be  
24 very useful for the visually impaired. It is noted that such navigating features would be  
25 particularly helpful in large area venues or complexes, including amusement parks, stadiums,  
26 arenas, fairs, or large conventions, and the like, where becoming geographically disoriented can  
27 easily occur. Thus one's movement from one place to another (a facility, an attraction, a booth,  
28 the aisles of a market or store, and so on) can be logically and efficiently sequenced by the  
29 apparatus of the present invention. Additionally, navigation with a graphical user interface  
30 assisted by a GPS further expedites one's sequenced excursion while optionally providing timing



1 information as to estimated travel-time, walking or waiting time, relative to a particular point of  
2 interest, facility, attraction, booth, and the like.

3 Other benefits are achieved with the aforementioned GUI and/or audio capable devices  
4 such as employing graphical and/or audio messaging that is instructive and/or entertaining and  
5 engaging. As the speed, LCD displays and memory capabilities of such devices improve, it will  
6 be practical to add audio and/or video clips (whether resident in the unit, downloaded therein, or  
7 played as 'streaming' files--as communications bandwidth permits), including the use of famous  
8 clips and quotes from multimedia sources such as film libraries, cartoon libraries, or audio  
9 recordings, any of which can be chosen by the user according to the user's tastes and are  
10 selectable by the user from a database of various themes, personalities, actors, comedians,  
11 musicians, performers, athletes, leaders, politicians, and other famous figures. Such clips and/or  
12 recordings are also employable (through the employment of software routines) in a manner that  
13 makes sense in the context of, and is synchronous with, the customers' transactions, interactions  
14 and scheduled itinerary--and can also include entertaining media and recordings (whether related  
15 to their transactions or not) that can be played back on their handheld device. For example, a  
16 comedic clip might say "I'm trying to think but nothing happens" as a user is waiting for access  
17 to a particular piece of information.

18 Figures 2 and 3 are front views and top views respectively of an optimized networked-  
19 venue having a plurality of networked workstations which securely encircle an inventory of  
20 merchandise as a workstation system. Figure 3 shows an interior top view of the venue's  
21 automated pick-and-place robotics and record-keeping/updateable system, which is accessible  
22 on-line and by workstation access, including one or more optional ATM-Style stations at an  
23 exterior wall adjacent near to the workstation system.

24 By way of example, Figures 2 and 3 depict an embodiment of the invention which is  
25 further comprised of a networked-venue workstation system 12 representing an optimized  
26 networked-venue. Workstation system 12 has a plurality of workstations 26 that serve as  
27 customer ordering bays from which in-store products can be ordered and automatically retrieved.  
28 As seen in Fig. 3 a plurality of networked workstations 26 are arranged to encompass and secure  
29 an inventory of merchandise 16 within workstation system 12 such that the inventory is out of  
30 reach to customers until purchased--thus eliminating the need and costs for individual  
31 entertainment-content security apparatus and store-wide tag detection electronic security

1 systems. The workstations are each comprised of a networked computer/graphical user interface  
2 and display 48, with each computer thereof providing connectivity to the Internet and to a  
3 customer I.D. and ordering confirmation means 64 including transaction and interaction software  
4 routines of the types previously described in reference to Fig. 1B. Whether employed in a mall-  
5 based facility, or a an independent store-chain facility, workstation system 12 is optimized for  
6 automated record updating of inventory and order information, providing both remote networked  
7 access and local access (e.g. in-store) via a networked interface to one or more merchandise  
8 venues 142 employing the methods previously described in reference to Fig. 1B.

9 The workstation system is further comprised of one or more designated areas 24 (Fig. 3)  
10 such as an 'Expedited Service Area' for expedited customer interactions, and optionally includes  
11 the location of one or more ATM-Style bays 28 located adjacent to an external wall of the  
12 facility--including one or more of the external bays also having an expedited transaction  
13 designated area 24. The bays have cable coupling, or wireless communication with, at least one  
14 networked computer 14 having venue-condition editing, monitoring and reporting means 144 of  
15 the type previously described in reference to Fig. 1B. The customer identification and order  
16 verification means 64 of the workstation/ordering-bays can also be configured to provide  
17 wireless transceivers and/or financial card strip readers to expedite transactions. Optionally  
18 entertaining and engaging audio and/or visual clips that help facilitate user interaction can also  
19 be employed. Like the multimedia clips and recordings employed by the handheld devices,  
20 multimedia use at the workstations can also expedite and improve the user's shopping  
21 experience--such that entertaining clips make sense in the context of the user's transactions and  
22 are entertaining, and optionally configurable to the user's taste. Thus, the workstation interface  
23 can appear to be talking to and/or instructing the customer by employing a contextual sequencing  
24 of appropriate clips or recordings relating to their current interactions and relative to their  
25 transactions. Additionally, the user can be provided with a diverse library of multimedia files to  
26 pre-select desirable personalities (e.g. famous, notorious, dysfunctional, comedic etc.), themes,  
27 scenes, songs, song clips, and so forth, and can be selected when the system is accessed  
28 remotely, or while being operated from an ordering-bay. It is noted that although the emphasis in  
29 the previous description has been on commerce and in particular dual-commerce as it pertains to  
30 workstations in a designated expedited service area, it is also noted that workstations in non-  
31 designated areas provide similar functionality and are of service to regular walk-in customers.

1       The external ATM-Style bays 28, provide up to 24 hour per day automated transactions  
2       for example, when used in conjunction with the pick-and-place robotics of the workstation  
3       system 12 (as depicted in FIG. 3) bays 28 can be used to retrieve purchases or rentals, and for the  
4       return and re-stocking of the latter, around the clock.

5       Figure 2 is a front view of the workstation system 12, the workstations 26 are accessible  
6       via a ramp 46 leading to an elevated walkway 36 having a handrail 44 extending upward from an  
7       outer perimeter of the walkway. Each workstation has a networked computer/graphical user  
8       interface and display 48 providing a user interface to facilitate a selection, ordering and/or  
9       retrieval of inventoried goods (16 of FIG. 3) secured within an inner diameter of the annular  
10      structure 52 supporting the walkway and workstations. Each workstation is equipped with a  
11      customer identification and order verification means 64 such as a wireless transceiver that can  
12      communicate with a customer's handheld device, or a magnetic card strip reader. It is noted that  
13      by inventorying the goods, such as audio CDs, DVDs, CD-Roms, Video Games, Videos and the  
14      like, within the annular structure, that customers will not have access to any of the stock until it  
15      is ordered and paid for. Thus shoplifting is eliminated as are the substantial security costs  
16      associated with securing such valuable goods. For example, it is not uncommon for stores having  
17      a significant volume of such media, to pay in excess of \$100-200K in security related equipment,  
18      which provides no added-value to the consumer in terms of their shopping experience. Often  
19      stores must also employ full-time security personnel thwart or discourage shoplifting--adding the  
20      expense of their salaries to the security overhead. Furthermore, stores utilizing plastic CD  
21      security-locks on media have to replace those locks every few years due to damage and scuffing,  
22      and the process of removing the locks significantly slows down customer transactions. By  
23      contrast, the methods employed in FIG.S 2 and 3 eliminates the security concern by securely  
24      enclosing the inventory (out of sight) and uses the resource of security monies formerly required  
25      to add enhancements to the customer-experience.

26      All available in-store inventory is clearly shown and easily browsed through on the  
27      workstation display and selectable by customers at the workstation via one or more computer-  
28      coupled or computer communicating input device (i.e. goods representation and ordering are  
29      similar to product browsing and ordering functionality provided by eCommerce websites). When  
30      the networked-venue is of a type that provides entertainment-content the dual-commerce system  
31      optionally provides: software routines for streaming entertainment-content such as streaming  
32      audio, or streaming video; and computer-accessible playback means for previews of other

1 digitally-recorded content (such as CDs, DVDs, and files stored in non-volatile memory and/or  
2 hard disk-based devices). Such computer-automated browsing of current inventory eliminates the  
3 hunting of product that may or may not be available down any number of aisles in a conventional  
4 store. If stock is not available for on-screen ordering and immediate retrieval, the customer is  
5 offered automatic delivery as soon as it is available.

6 An example of re-directing investment and constructively using the monies formerly  
7 required for security and security overhead, is the employment of an immersive and dynamic 360  
8 degree screen 40 which is positioned adjacent to the upper edge of the annular structure 52 such  
9 that rear-projection images can be panoramically or segmentally projected onto the screens by a  
10 ring of projectors 42 (seen in FIG. 3) including live images from remote locations and/or pre-  
11 recorded images. The panoramic or segmented screen content is dynamic and engaging to  
12 passersby and workstation customers and produced to heighten the customers experience.  
13 Optionally, for increased security and/or enhanced customer engagement, workstation cameras  
14 30 can be provided for interactive participation with other customers, including interactivity with  
15 customers at similar facilities located elsewhere and the imaging of such interactions on the  
16 screen 40.

17 Figure 3 is a top view showing an interior detail of the workstation system 12 depicted in  
18 FIG. 2. Adjacent to an outer perimeter 54 ramp 46 can be seen at the leftmost portion of the  
19 illustration which leads to a walkway 36 surrounded by handrail 44--both of which generally  
20 encircle an annular structure 52 supporting workstations 26 (seen in FIG. 2). Adjacent to an  
21 opposite segment of outer perimeter 54 is enclosed corridor 56 leading to external wall 32. Wall  
22 32 has one or more ATM-Style ordering bay 28 which can also be equipped with a security  
23 camera 30. Like the workstations 26, bays 28 are also interactive and provide access to the  
24 robotic pick-and-place apparatus 18 and facilitate customer interaction and transactions 24 hours  
25 per day, including purchases, rentals and rental returns. In an interior area 38 within the annular  
26 structure 52 is a secured inventory of goods 16. The scale of the depicted workstation system is  
27 such that the inventory is retained within approximately a thirty foot diameter making its storage  
28 capacity about 40,000 CD-sized CD, DVDs, CD-ROMs, and the like. Each storable item is given  
29 its own storage slot (not shown) having a position (height and radial position) that is assigned  
30 during stocking and maintained by a workstation networked device 14 and  
31 transaction/interaction record-keeping & updating software 122.

1 From the top view of FIG. 3 it can be seen that any one or more of the workstations 26 or  
2 bays 28 can be clearly designated for expedited-customer interaction for example, by easily  
3 readable workstation indicia, or coloring, etc., and that such areas can be scalable to include  
4 more workstations in the designated area to accommodate increases in scheduled customers.  
5 Additionally, if the area is designated by rope/stanchion boundary, such a perimeter is flexible  
6 enough to expand and contract a designated area as needed according to an ebb and flow of  
7 scheduled customers. Additionally, horizontal workstation pads 34 can be provided for other-  
8 abled individuals' access to workstations, for example those arriving in a wheelchair.  
9 At the end of robotic arm(s) 70 a pick-and-place means 18 is shown which is suitable for placing  
10 goods in any one of a plurality location-specific merchandise slot 58 among an entire inventory  
11 of goods. Similarly, pick-and-place means 18 is configured to retrieve goods from location-  
12 specific slots 58 as needed. In either case, such placement or retrieval of goods is done in  
13 communication with the record-keeping software and record-updateable data of networked  
14 device 14, including the schedulable retrieval of goods according to the expedited-customer  
15 transactions occurring at the designated areas (i.e. workstations) of the facility. In addition to  
16 means 18 at the end of arm(s) 70, a light intensity sensing means 22 can also be employed,  
17 whereby slots that are empty reflect back light to a system-coupled, and system-communicating  
18 light emitter-detector pair that is measurably different from the light reflected by a filled slot. For  
19 instance, the interior of any empty slot can be comprised of a surface that promotes a light-  
20 reflectivity delta which is measurably different when contrasted against the light reflectivity of a  
21 filled slot. For example the interior of the slots can be flat black; or have a light-reflecting  
22 material such as light-reflective tape attached thereto which provides a brighter reflected light  
23 signal back to sensing means 22 than a occupied slot does. Goods that are stocked, retrieved, or  
24 re-stocked in a plurality of slot 58 are relationally databased according to slot height locations  
25 and slot radial locations and can be cross-referenced by any one or more in a variety of  
26 entertainment-content categories including: content title; content-genre; content-artist; content-  
27 production company, and so forth (e.g. within the record-keeping software and record-updateable  
28 data of the networked device 14).

29 In one embodiment of the optimized networked-venue, the goods can be substantially  
30 standardized in size, for example, by stocking the standard-sized media of Audio CDs, DVDs,  
31 CD-Roms, CD-Based Video Games, and so forth. In which case, the approximate 30 foot

1 diameter rack system within the annular structure 52 of networked-workstation system 12, would  
2 contain about forty thousand units with the units stored in slot-racks approximately 8 feet high.  
3 Substantially more units can be stored when a plurality of annularly-shaped (or other-shaped)  
4 racks are employed. For example, one or more racks can be placed in an area interior to the  
5 diameter of annular structure 52 (e.g. with additional annular-shaped racks having a diameter  
6 that is less than thirty feet).

7       The robotic pick-and-place means 18 located at the ends of arm(s) 70 are radially and  
8 vertically positionable to any merchandise-slot 58: 1.) they are radially positionable in a  
9 horizontal axis for example by the motion-control rotation of arm 70 to desired radial slot  
10 positions relative to a pre-determined 'home' position; and 2.) they are vertically positionable in  
11 a vertical axis to desired vertical slot positions by suitable vertical motion-control means such as  
12 a motion-controlled lead screw 60 which extends downward from the end of arm 70 (vertical  
13 length and travel subject to unit-rack height). Following the positioning of the pick-and-place  
14 means 18 to an alignment with merchandise in a merchandise slot, an electro-mechanically  
15 actuated gripping means is employed to grip the merchandise and move in an axis aligned with  
16 the slot until the merchandise is removed therefrom (this step is reversed for placing merchandise  
17 into a slot). The gripping means is also used when goods are delivered to a workstation, whereby  
18 the merchandise is gripped and aligned with a workstation delivery chute where it is released to  
19 slide down an incline to a merchandise reception bin accessible to the ordering customer (not  
20 shown). It is noted that the support and positioning of the pick-and-place unit(s) can be further  
21 enhanced by, suspension from above, or support from below, of an auxiliary rail system (e.g. one  
22 or more motion-controlled element supported by rollers gliding in an aligned rail system 62). In  
23 either case, the light intensity sensing means 22 located adjacent to pick-and-place means  
24 provide real-time inventorying or regular computer-audited inventorying of the entire stock of  
25 goods as the pick-and-place means is moved. For example, during a regularly scheduled  
26 inventory such as every hour, or every shift, the computer motion control actuation of the robotic  
27 arm(s) 70 radially sweeps the sensing means 22 across each of the cumulative slots 58 of each  
28 horizontal height-row. It then vertically moves to subsequent horizontal height-rows to sweep  
29 their respective slots until the entire height of the stock has been swept/scanned. Thus, a  
30 computer-audited inventory of over forty thousand units is accomplished in less than a few  
31 minutes, upon demand or as scheduled. During normal pick-and-place activity the sensing means

22 can also be employed to verify slot occupancies and vacancies. In either case--whether scheduled, or during normal operation--databased information pertaining to the inventoried goods 18 is thereby updated, such that remote orders from a consumer's home or place of business, and local ordering (from the facility's workstations), ensures an item will always be on hand when it is shown to be among the current stock available, and can optionally be immediately ordered (for example, Just-In-Time 'JIT') from a supplier source when the stock is depleted, pre-sold (with a scheduled delay until the availability of the order), or reaches a particular unit-count threshold.

Additionally, the inventorying means can be configured to provide data to the facility's networked device 14 that arranges inventory information in a readily understandable manner for quick and easier analysis of the inventory. For example, stock that is moving the quickest among the inventoried columns and rows can be represented pictorially on a computer display screen in unit slots that are colored in hot colors (e.g. white, yellow, orange, red). Conversely, slow-moving inventory can be represented in cool colors (blue, green, gray, black). Additionally, such data can be cross-referenced or exportable to a spreadsheet format for numerical representations, and for coordinated ordering or re-ordering of additional inventory. Either approach, whether graphical or numerical, can be further parsed to show 'aging' of stock i.e. stock that has been retained in the inventory over extended periods of time and may be removed for replacement with newer inventory.

The automated system of the optimized networked-venue illustrates, by way of example, fourteen workstations and three additional ATM-style external workstations, all of which, in effect, function as order-taking and order-fulfilling stations, meaning that the facility is optimized for the scheduling and serving of no less than seventeen customers at a time--who can quickly and easily browse on-screen represented goods, and retrieve on-screen selected goods by the system's internal robotics as desired. In contrast, a conventional entertainment-media retail and or rental facility would have to have a staff of no less than seventeen employees and seventeen cash registers to serve an equal number of customers simultaneously, and all of the stock in a conventional store would have to be secured by expensive security equipment and would have to first be hunted for by the customers (assuming desired goods are in stock). Furthermore, the condensing of the stock into the interior of the facility permits the number of goods to be securely stored within an optimized area that is one fifth of the real estate required

1 for a conventional store having the same volume of stock. Thus, a substantial reduction in  
2 overhead is achieved by optimized networked-venues (e.g. in real estate, personnel/staffing,  
3 security staffing, inventorying, ordering, etc.). The thirty foot inner diameter ~~optionally~~  
4 optionally permits the inclusion of entertainment-content replication equipment therein, and MP3  
5 audio file downloading systems (the system uploads ordered medialess MP3 files or other digital  
6 audio file format to medialess-file ordering customers) as network bandwidth speeds increase  
7 and medialess audio files sales increase.

8 FIG. 3 further illustrates the employment of a ring of projectors 42 that are positioned to  
9 project panoramic, or segmented, imagery on a screen 40 (see also FIG. 2). The content of such  
10 imagery comprises any one or more in a variety of visual-content media suitable for projection of  
11 panoramic, or segmented, images onto a projection screen. The screen further secludes the  
12 facility's inventory and provides an engaging and dynamic 'storefront' that is always changing--  
13 versus the static appearance of conventional stores. When the workstations include cameras one  
14 or more projectors 42 can project workstation customers on the screen to promote customer  
15 interactivity at one or more venue having the networked-workstation system. Screen also ideally  
16 suited for displaying store promotions and contests, including interactive contests between  
17 customers and/or stores.

18 In a co-pending patent by the applicant of the present invention, various screen types and  
19 image exhibition equipment are described that are suitable for employment as the facility's  
20 screen 40.

21 Although the present invention has been described with a certain degree of particularity,  
22 it is understood that the present disclosure has been made by way of example, and changes in  
23 detail or structure may be made without departing from the spirit of the invention in the previous  
24 descriptions or as defined in the appended claims.